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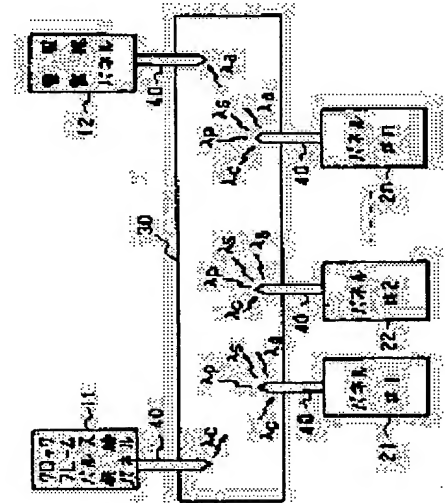
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## (54) WAVELENGTH DIVISION MULTIPLE TYPE OPTICAL BUS SYSTEM

### (57)Abstract:

**PURPOSE:** To simplify controlling and to improve the flexibility and extendability of a network, by using a bus constitution system, in which light is scattered and propagated into closed space, to assign a wavelength for each kind of signals.

**CONSTITUTION:** A duct 30, which consists of closed space to avoid the influence of external light, repeatedly reflects light projected into it and propagates the light all over the inside. Since a clock signal or frame signal is commonly and one-sidedly supplied to panels 21 ~ 2n from a panel 11, a wavelength of  $\lambda_c$ , which is independent of other signals, is assigned to it. Also, since an alarm signal or a monitor signal is transmitted and collected unidirectionally to a monitor panel 12 from the panels 21 ~ 2n, a wavelength of  $\lambda_a$ , which is independent of other signals, is assigned to it. Further, since a main signal is mutually transmitted and received between panels 21 ~ 2n, the same wavelength of  $\lambda_s$  is assigned to the main signal, and, for instance, the panel 21 is made to be of a constitution which transmits signals only when no light from other panels 22 ~ 2n are received.



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